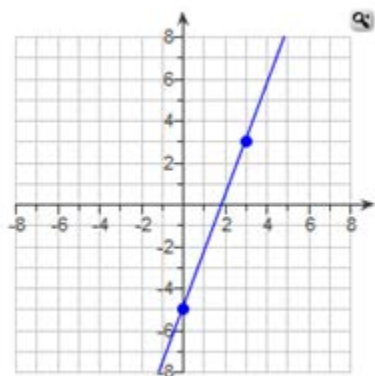


**PRACTICE TEST 3 - CHAPTER 3 & 5**

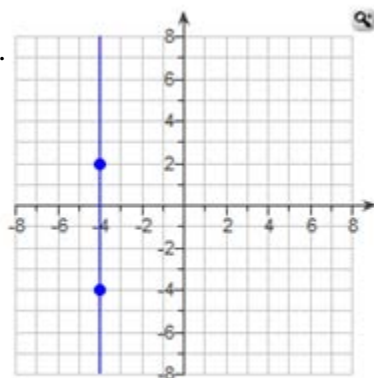
Beginning and Intermediate Algebra by Elayn Martin-Gay, 6th edition

**\*\*Reminder: Graphing Calculators will NOT be allowed on MATH 0361 tests\*\***

1. Find the slope of the line that goes through the points: (9,-8) and (-10,1)
2. Find the slope of the line:



3.



4. Find the slope of the line:  $8x + y = 3$
5. Determine whether the pair of lines are parallel, perpendicular, or neither:

$$4x = 3y + 1$$

$$-20x + 15y = 1$$

Use the slope-intercept form to graph the equation. (Write the equation in slope-intercept form when possible.)

6.  $y = -\frac{7}{2}x + 3$

**Find the equation of the line:**

7. Vertical line through (6,-4)
8. Perpendicular to  $x = 7$  passing through (6,6)
9. Through (15,9) and (12,15)
10. Slope =  $\frac{3}{2}$ , through (-6,-14)

**Simplify:**

11.  $x^8 \cdot x^3$
12.  $(x^{14}y^7)(x^5y)$
13.  $\left(\frac{2x^3z^2}{y^3}\right)^3$
14.  $\frac{(-2)^5}{(-2)^3}$
15.  $(-9x)^0$
16.  $\left(\frac{1}{2}\right)^{-4}$
17.  $\frac{y^{-8}}{y}$
18.  $\frac{(a^6)^3}{(a^8)^5}$
19.  $(-4x^4y^{-5})(2x^{-1}y^2)$
20.  $\frac{2^{-3}x^{-2}}{2^3x}$

**MATH0361 Practice Test 3 Answers:**

1)  $-\frac{9}{19}$

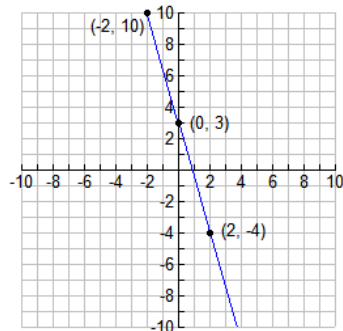
2)  $\frac{8}{3}$

3) undefined

4) -8

5) Parallel

6)



7)  $x = 6$

8)  $y = 6$

9)  $y = -2x + 3$

10)  $y = \frac{3}{2}x - 5$

11)  $x^{11}$

12)  $x^{19}y^8$

13)  $\frac{8x^9z^6}{y^9}$

14) 4

15) 1

16) 16

17)  $\frac{1}{y^9}$

18)  $\frac{1}{a^{22}}$

19)  $-\frac{8x^3}{y^3}$

20)  $\frac{1}{64x^3}$